

[illegible]

Figure 1
(Prior Art)

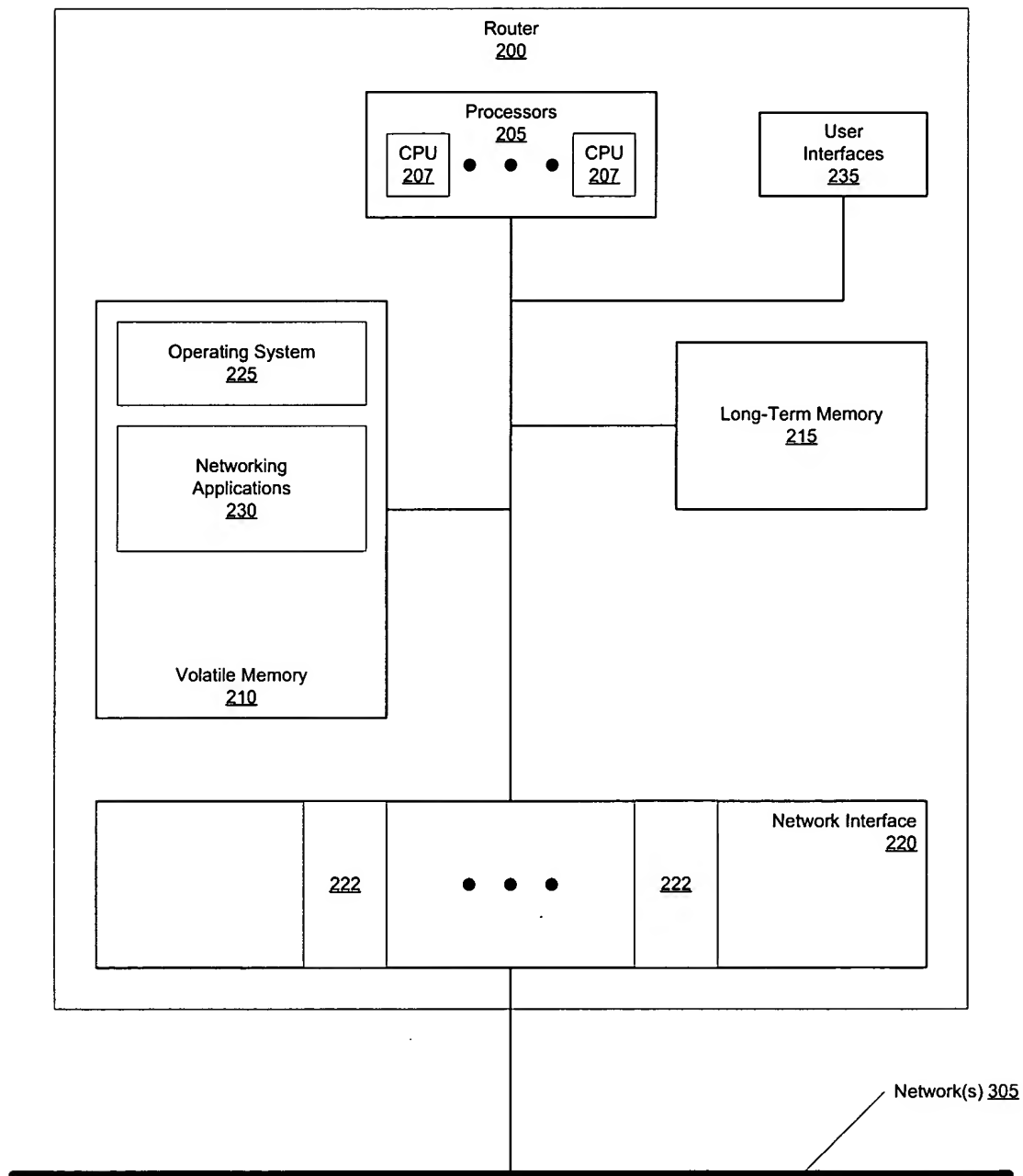


Figure 2

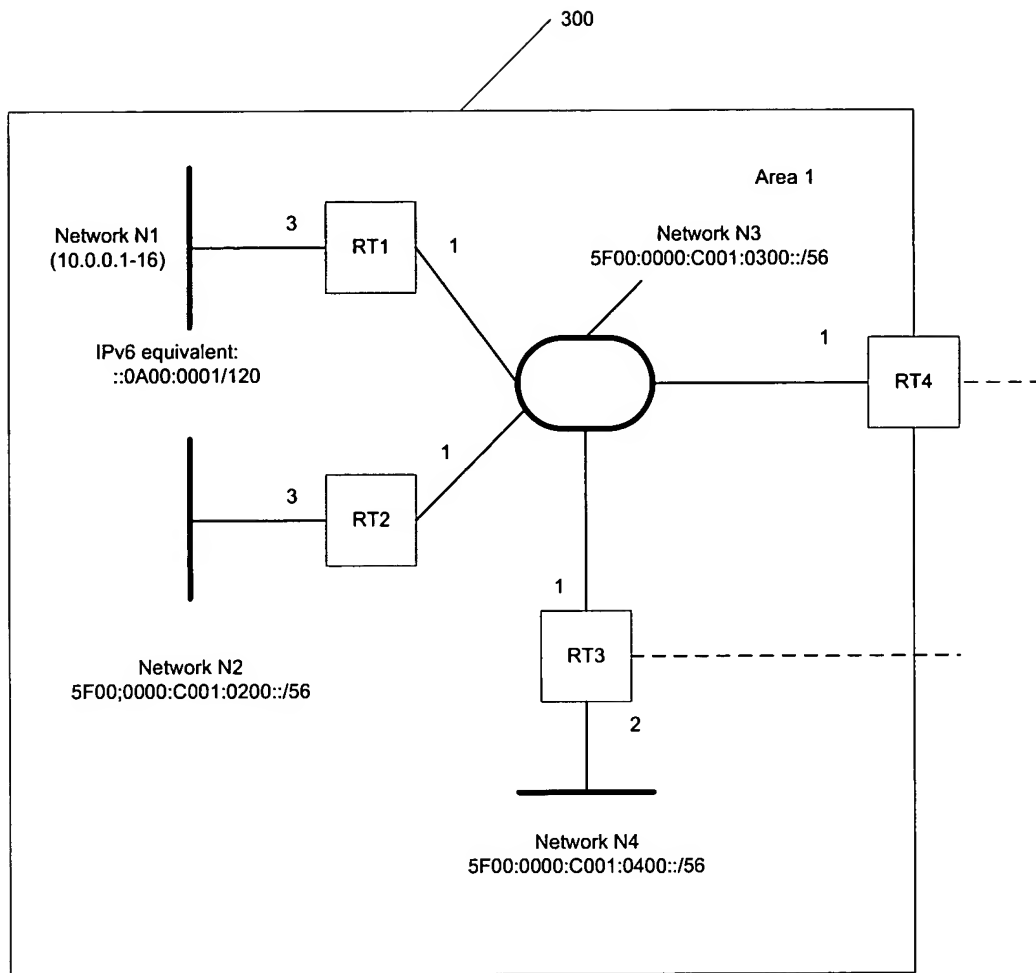


Figure 3

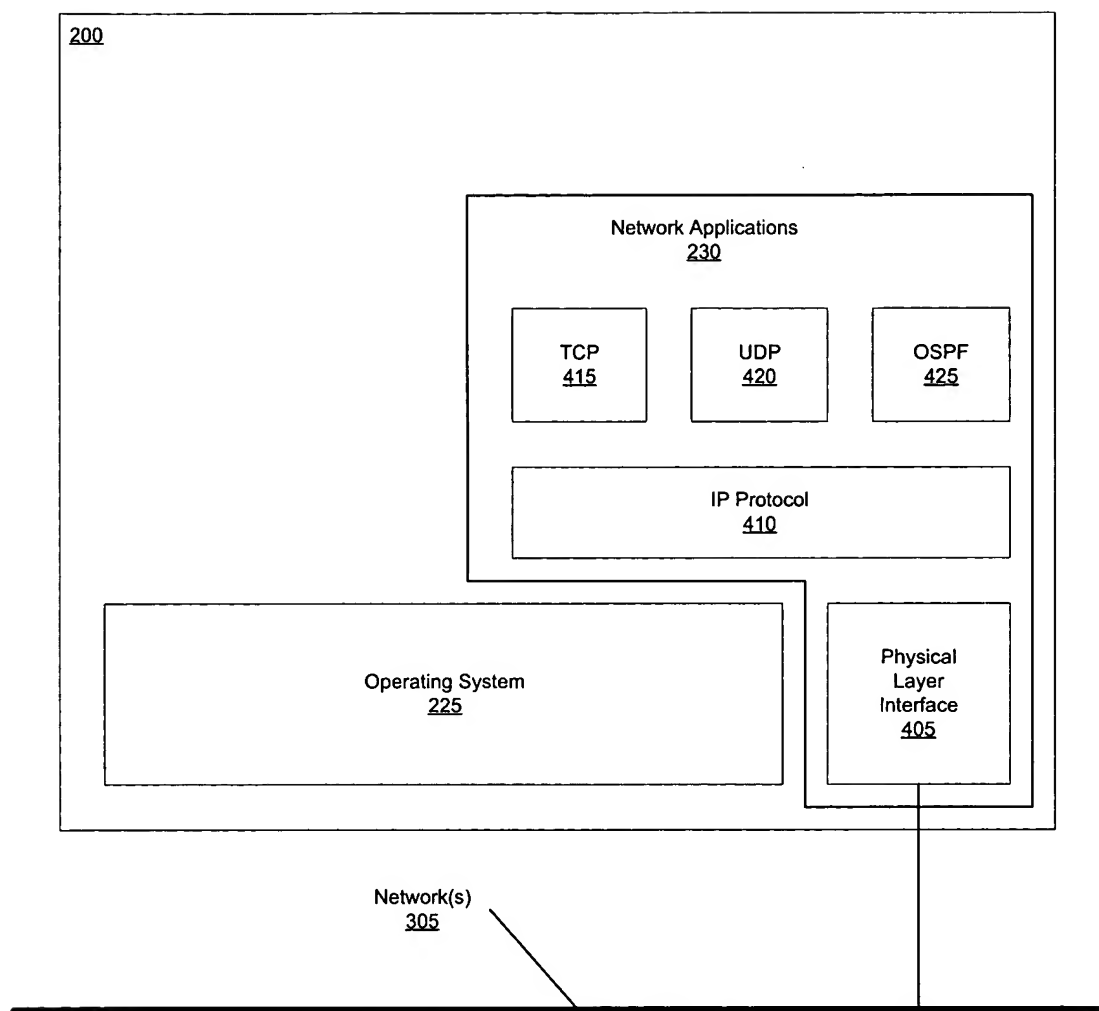
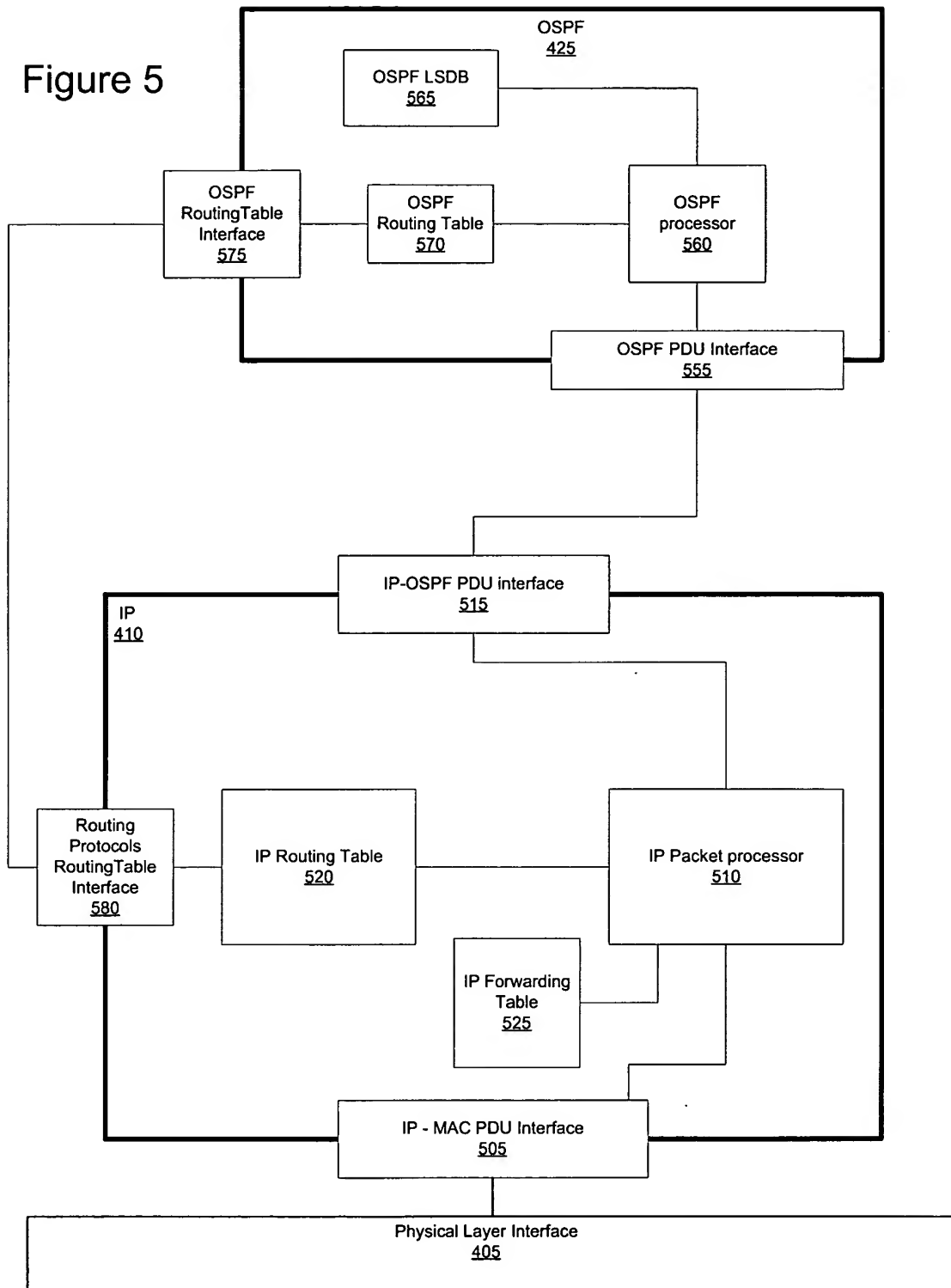


Figure 4

Figure 5



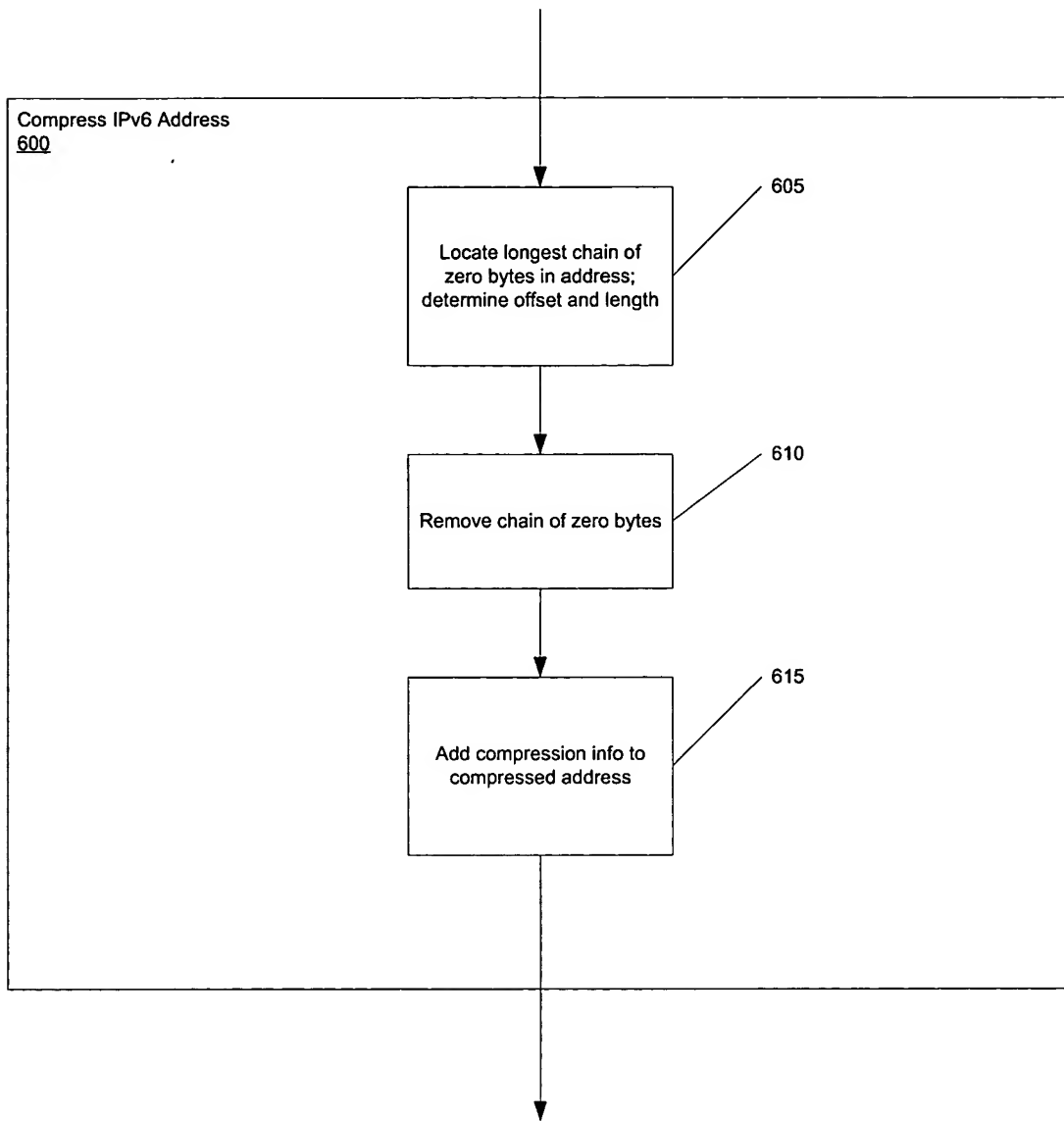


Figure 6

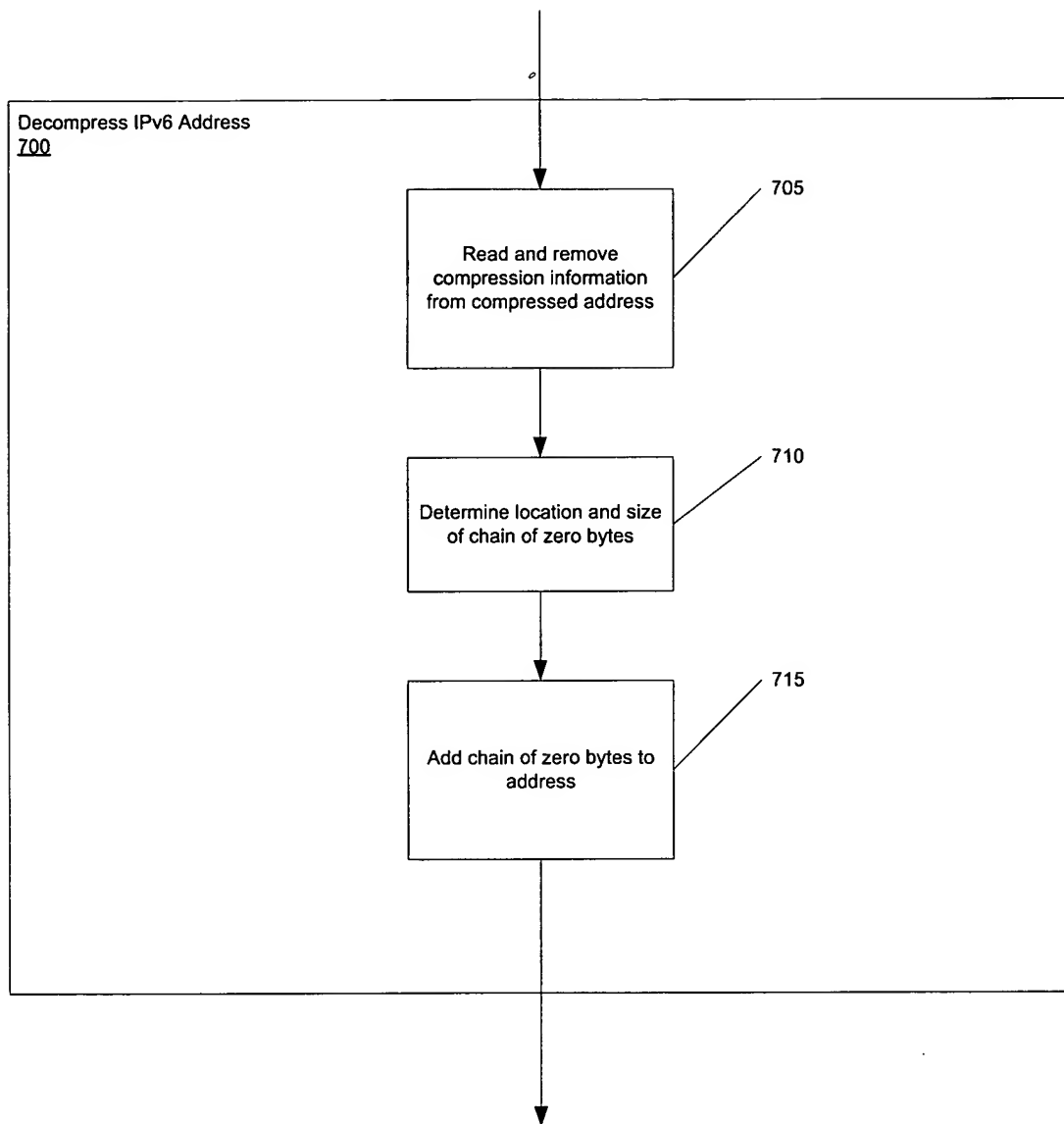


Figure 7

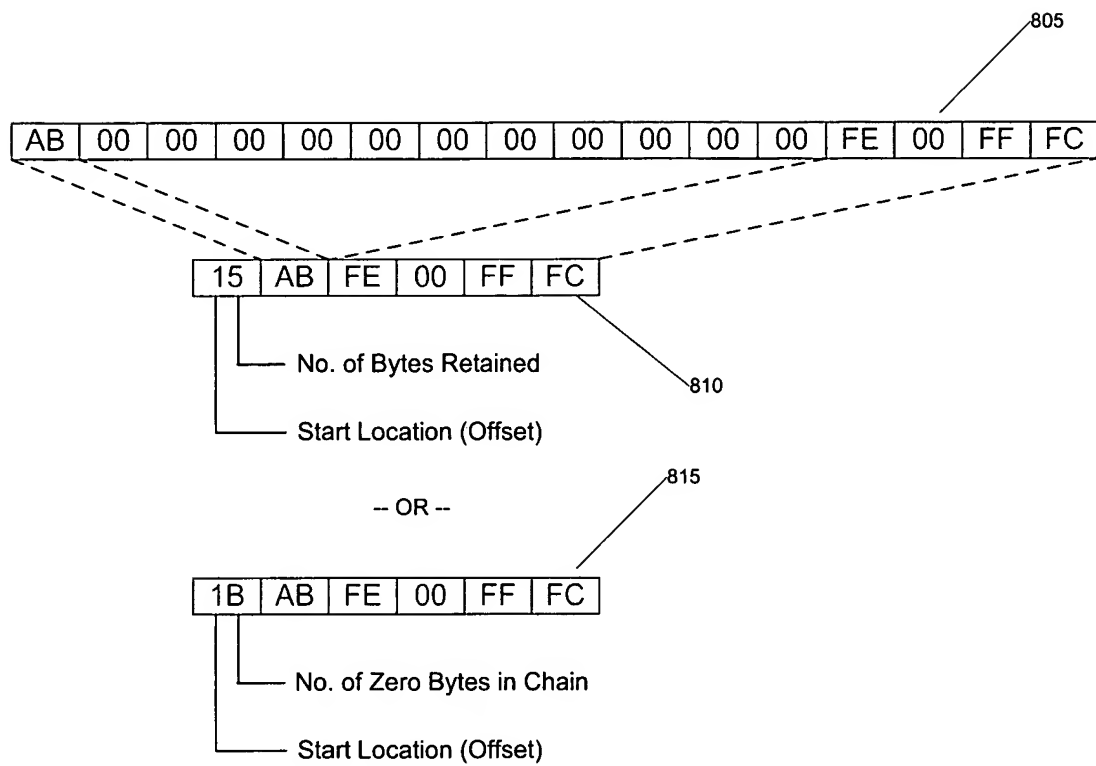


Figure 8(a)

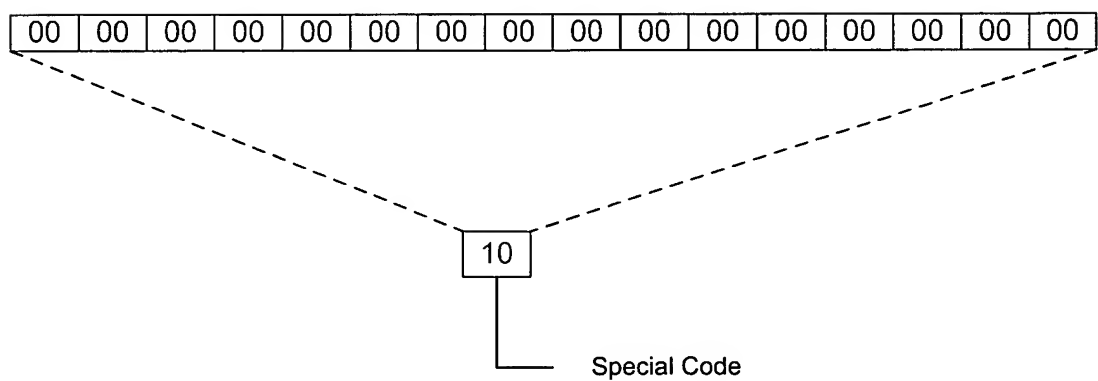


Figure 8(b)

Figure 9

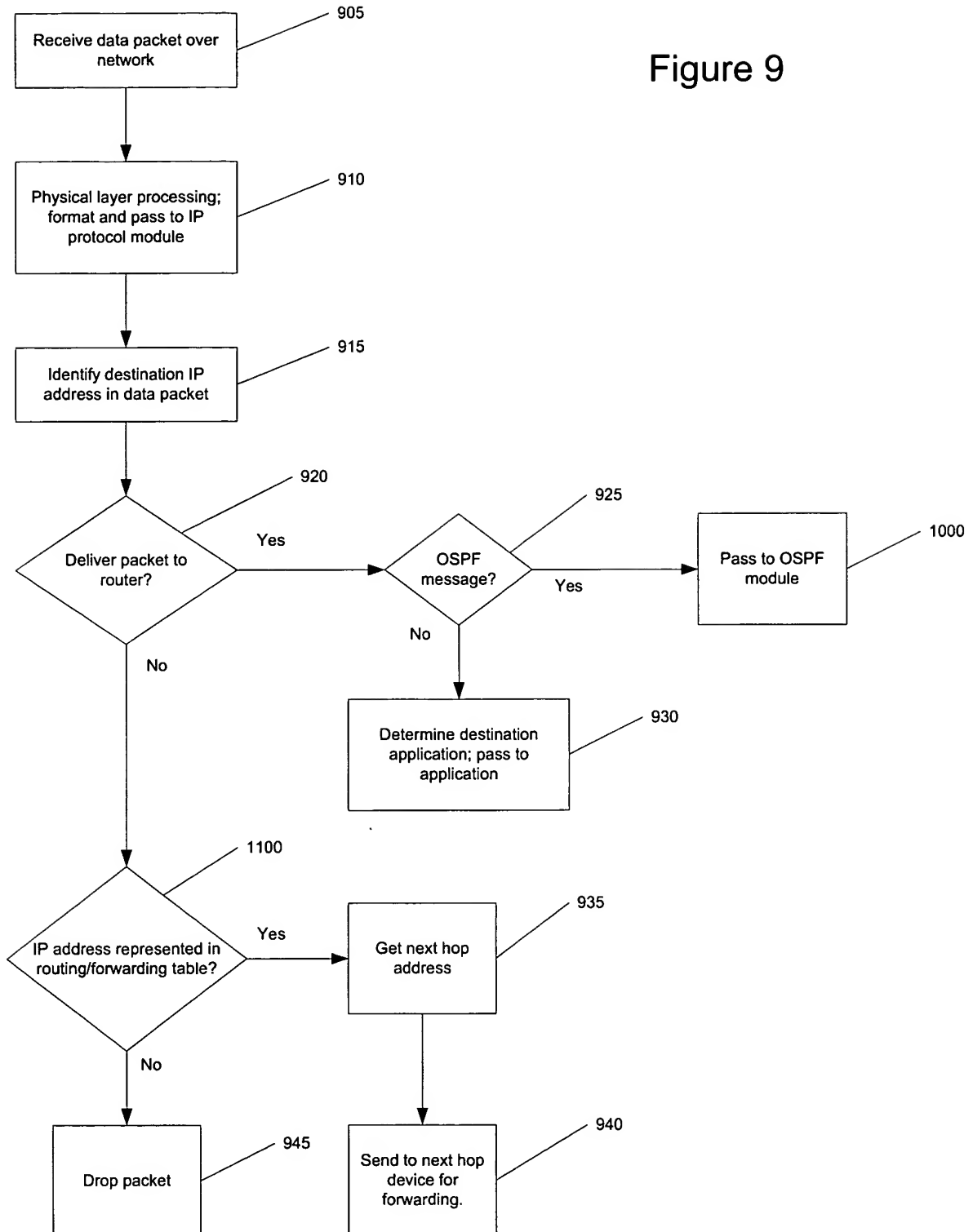
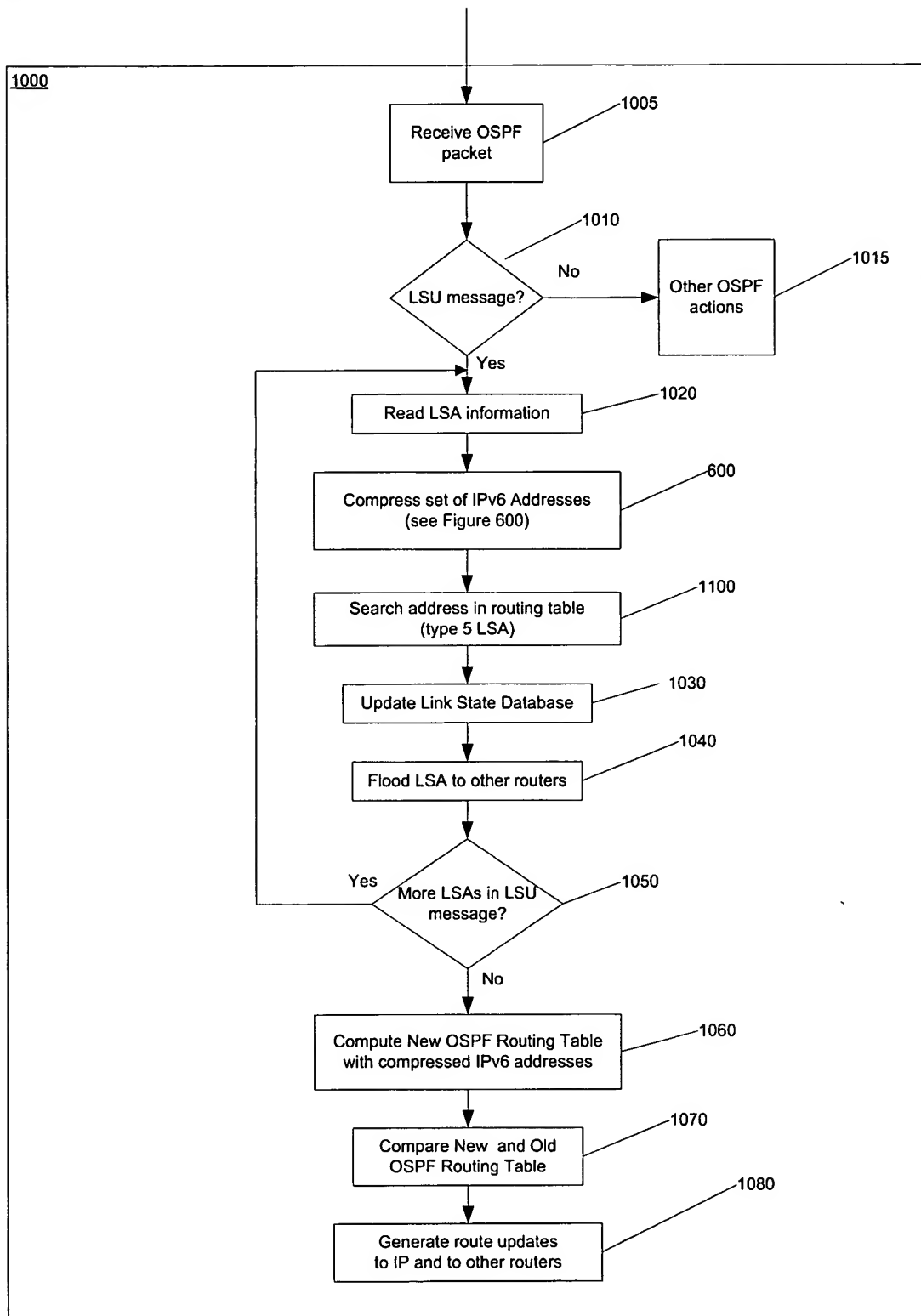


Figure 10



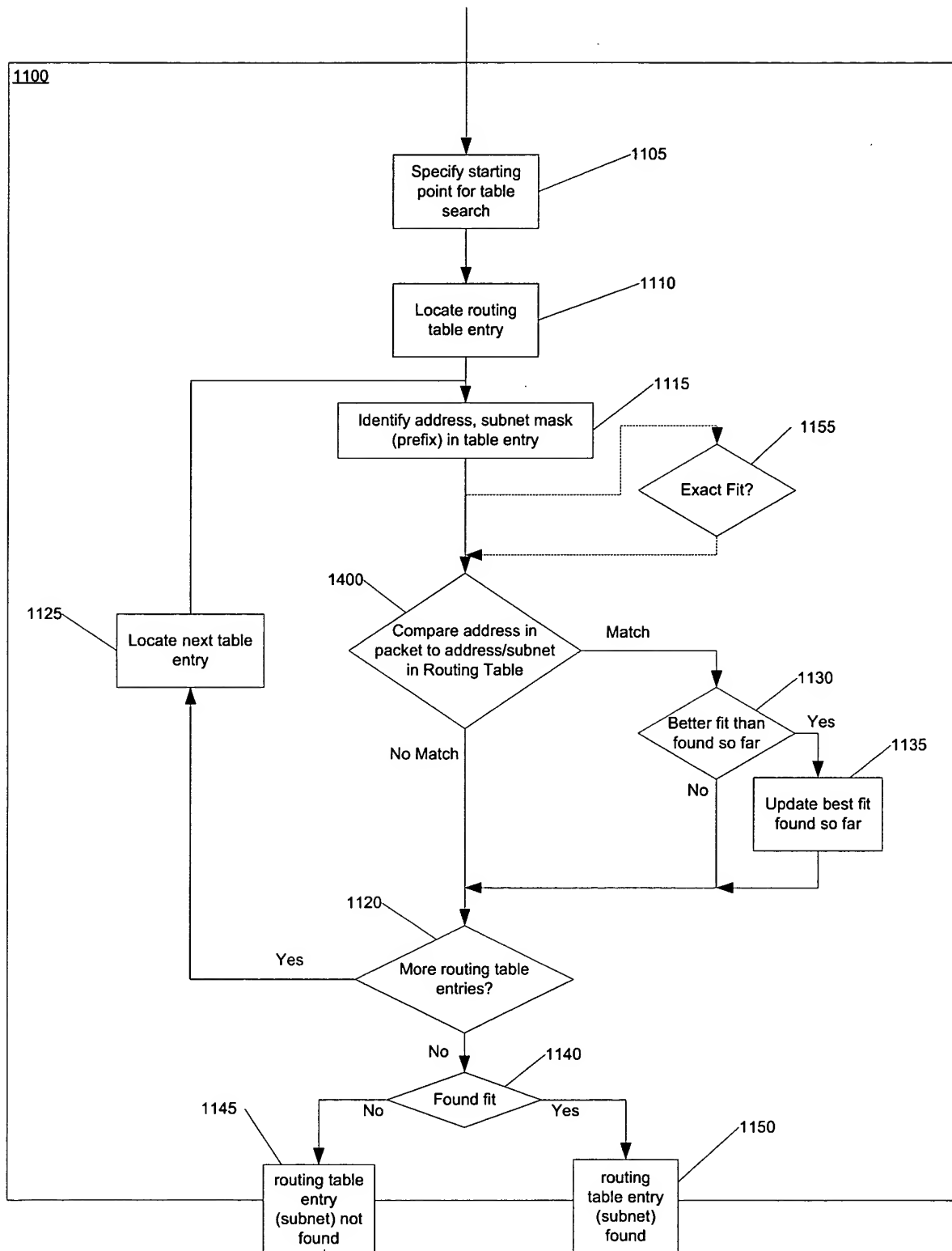


Figure 11

		520	
...	IPv6 Address	Mask length	...
1205	
1210	00:FEDC:BA98:7654:3210:FEDC:BA98:7654:3210	128	
1215	04:0a000100	120	
	28:1080:FEDC:BA98:7654	120	
	04:0b000001	120	
	04:0b000500	120	
	

Figure 12

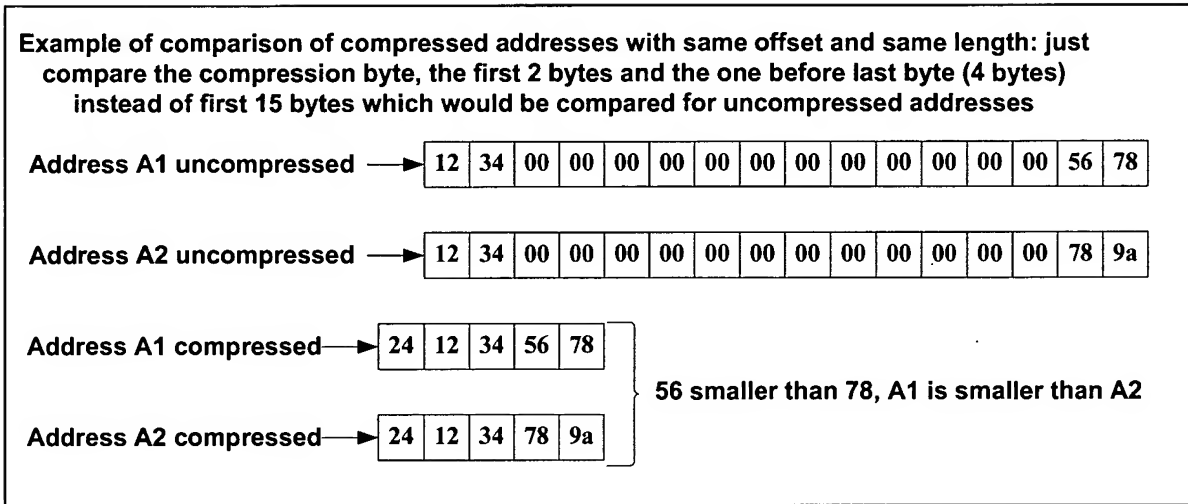


Figure 13(a)

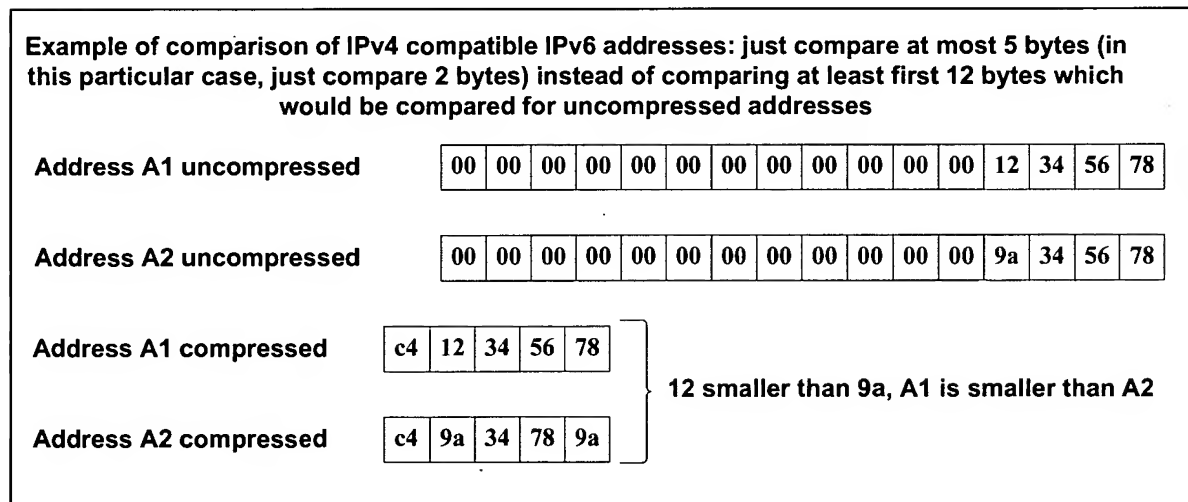


Figure 13(b)

Example of comparison of compressed addresses with same offset: just compare the compression byte and first 2 bytes instead of 14 bytes

Address A1 uncompressed

12	34	00	00	00	00	00	00	00	00	00	00	00	00	00	56	78
----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Address A2 uncompressed

12	34	00	00	00	00	00	00	00	00	00	00	00	00	56	78	9a
----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Address A1 compressed

24	12	34	56	78
----	----	----	----	----

Address A2 compressed

25	12	34	56	78	9a
----	----	----	----	----	----

Figure 13(c)

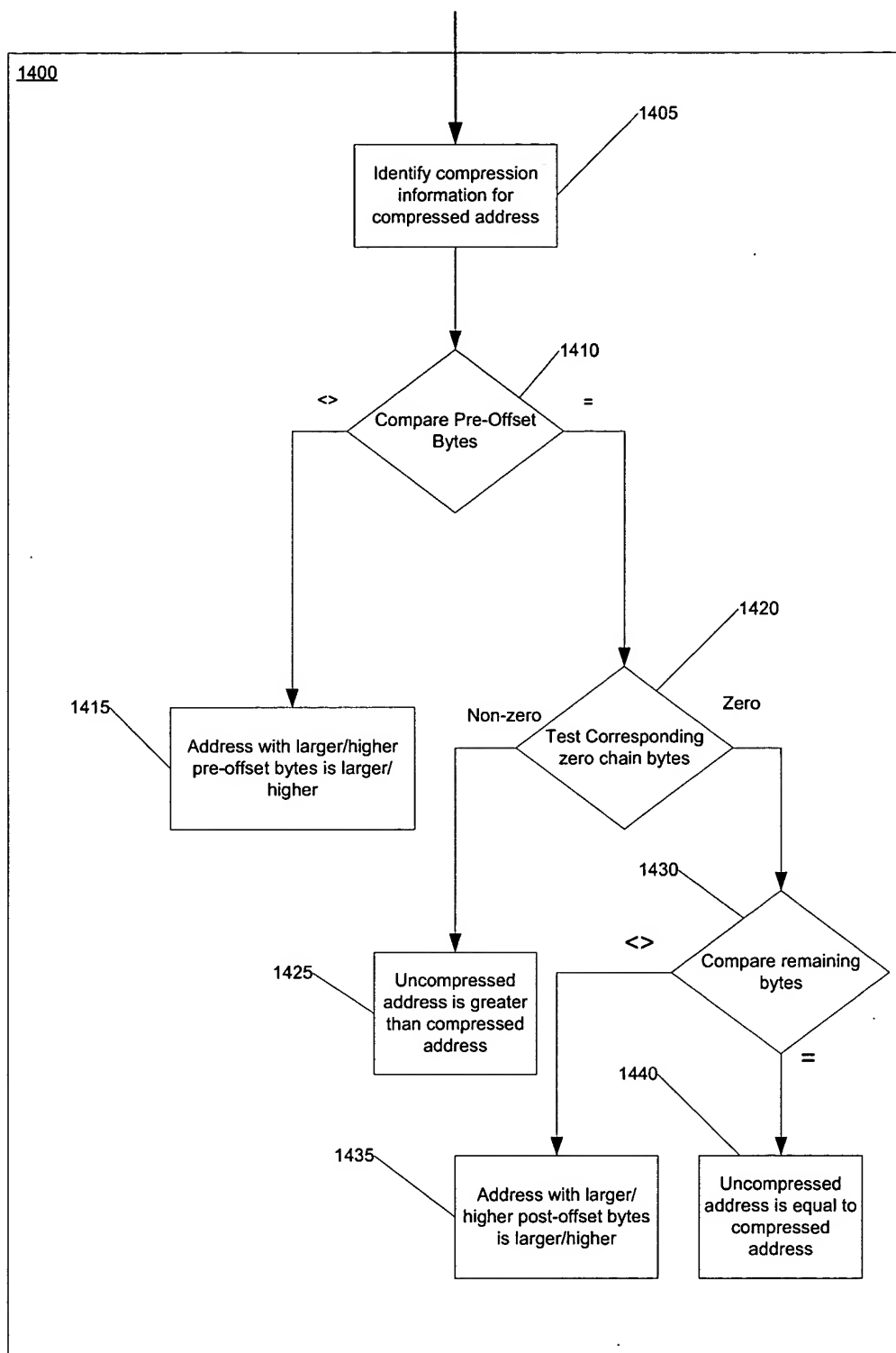
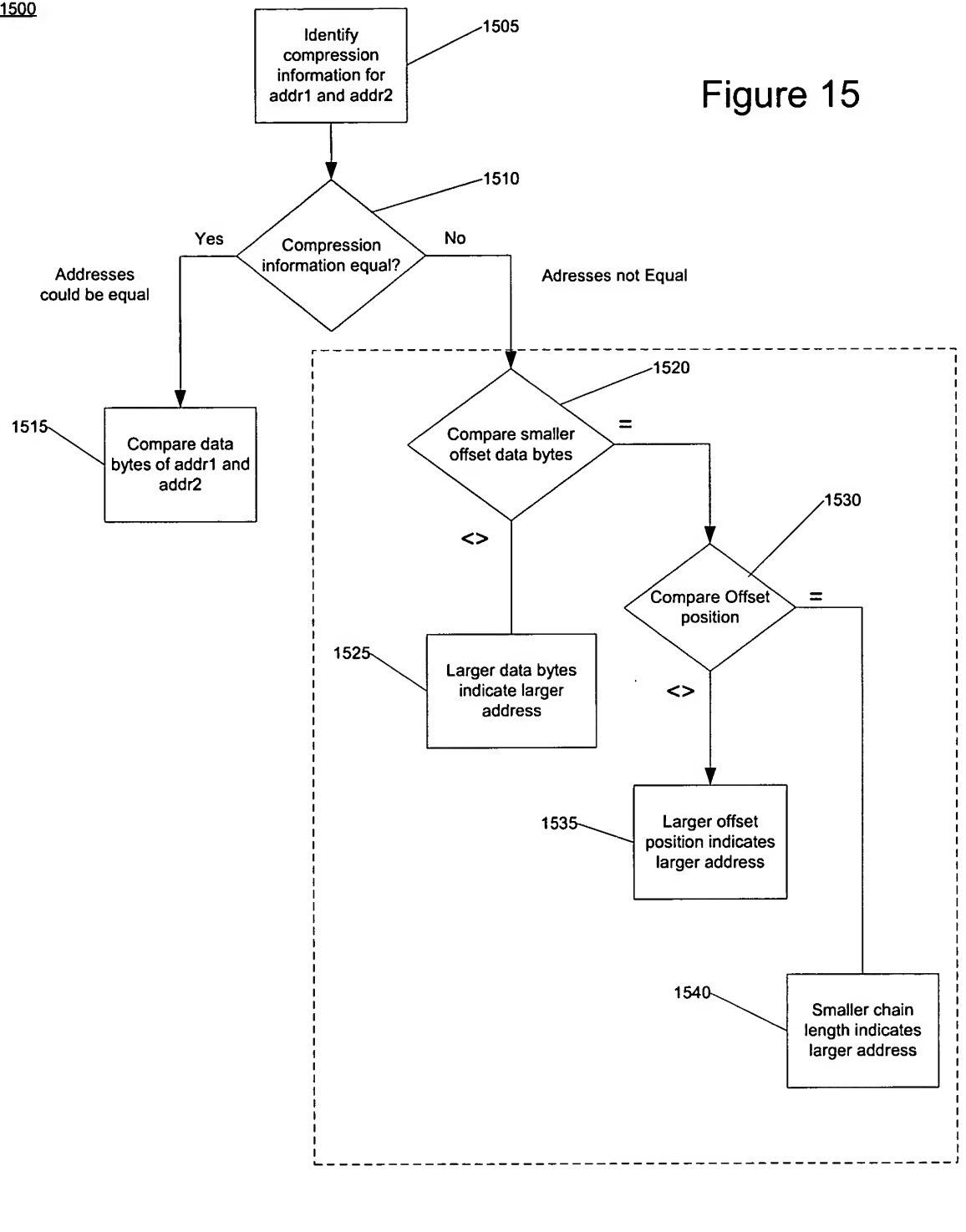


Figure 14

1500

Figure 15



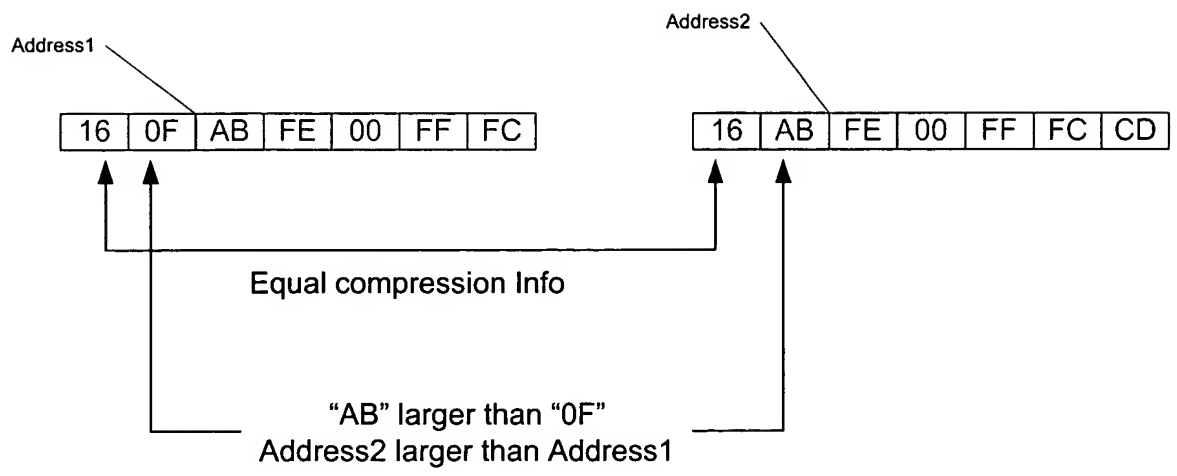


Figure 16(a)

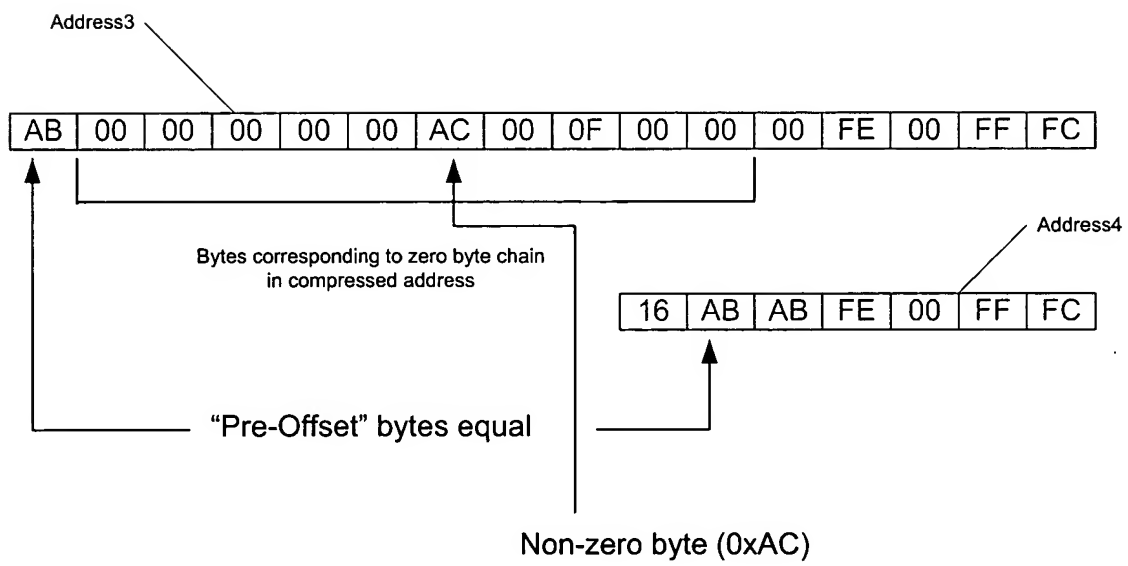
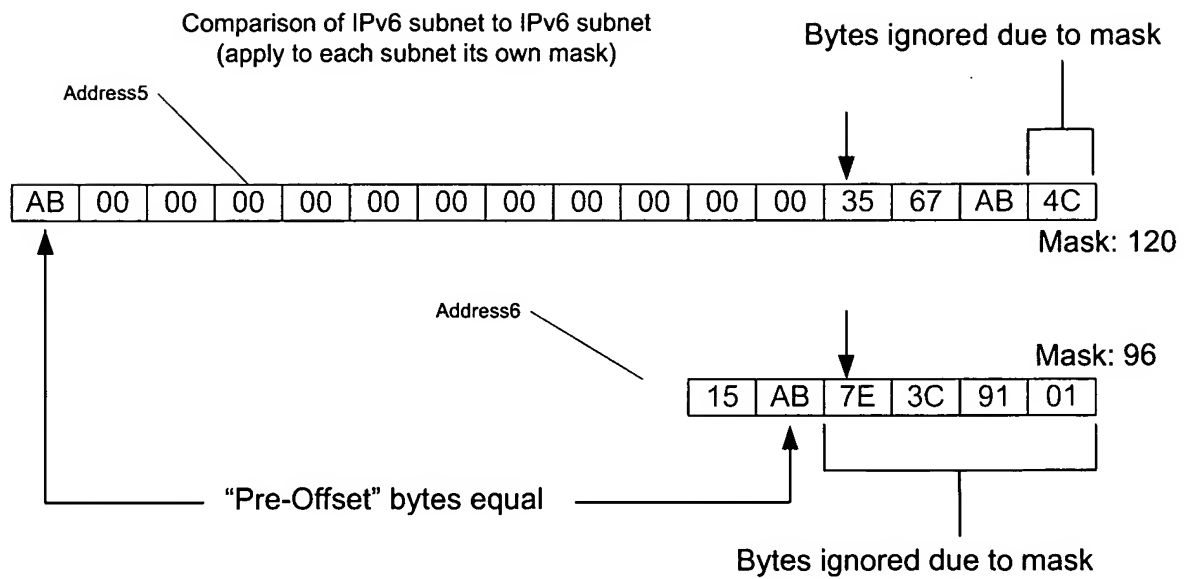
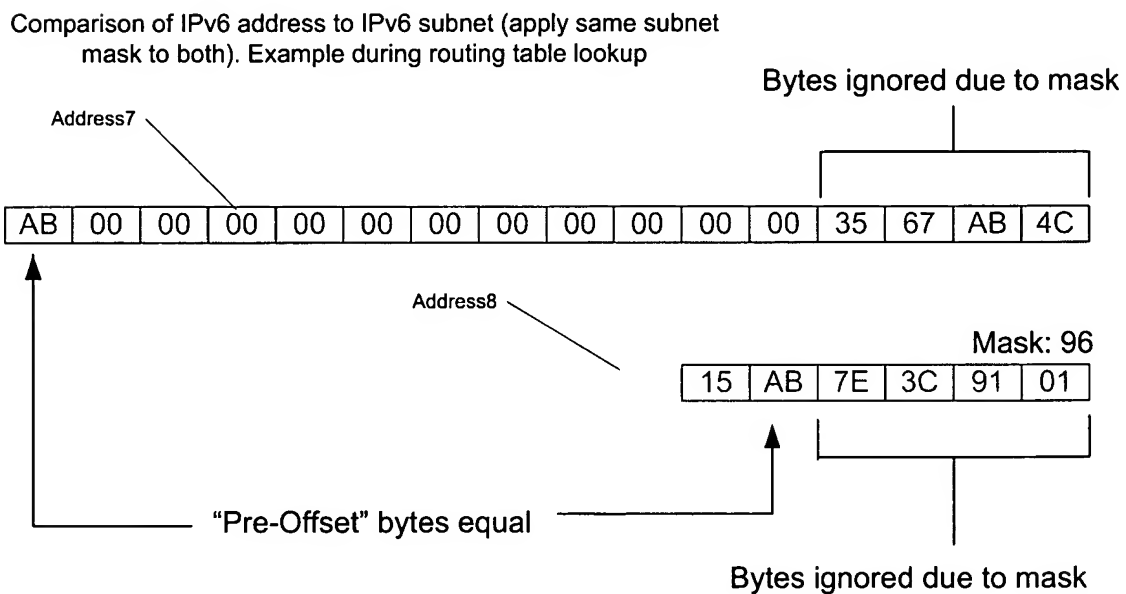


Figure 16(b)



Subnet Address5/120 bigger than subnet Address6/96

Figure 16(c)



Address7 equal ("included in") subnet Address8/96

Figure 16(d)